



*Office of Laboratory Licensure,
Certification & Training*

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Jane Dee Hull, Governor
James R. Allen, MD, MPH, Director

DATE: April 23, 1999
TO: Laboratory Director and QA Manager
FROM: Dr. Barbara J. Erickson, Ph.D., Bureau Chief
SUBJECT: Information Update #56
RE: Microbiology workshop on 5/18/99
NOTE: If any problems occur with this web site, please call 1-800-952-0374 or (602) 255-3454 extension 205, 221 or 222. Thank You.

1. The hot line to obtain information and clarification on EPA Solid Waste methods, MICE, Methods Information Communication and Exchange, has a new e-mail address: mice@cpmx.saic.com
2. In accordance with the goal of maintaining high quality in the analytical services carried out by the participants in the performance evaluation studies, your laboratory is requested to investigate the possible sources of error which produced "not acceptable" or "unusable" results, if any. Please inform the Arizona Laboratory Licensure office, by letter, of steps taken to correct the problems identified.
3. In response to questions concerning our Office's policy on the frequency of the certification on the reference and "working" weights:
 - "S" weights should be certified every 5 years by NIST/NBS. A reference weight should be recertified if it is damaged or corroded.
 - "Class 1" weights should be certified every year by ASTM. A reference weight should be recertified if it is damaged or corroded.
 - Chemistry "working" weights (non-reference weights used daily, weekly, etc.) checked against certified reference weights at a frequency set per individual laboratory.
 - Micro "working" weights checked against certified reference weights every 6 months.
4. On march 23, 1999, the following methods were approved by the Director of Arizona Department of Health services for the compliance testing of drinking water:
 - Chlorine by 4500-Cl-I
 - Haloacetic acids by 6251B

- Total Organic Carbon by 5310B, C and D
- UV absorption method by 5910B
- Chlorite and bromite by 300.0
- Bromate, chlorite and bromide by 300.1
- TTHMs by 551.1
- Haloacetic acids by 552.1 and 552.2

5. Preservation criteria for 200.7 (rev 4.4), 200.8 (rev 5.4), 200.9 (rev 2.2) and 245.1 (rev 3.0):

The Arizona Laboratory Licensure requires EPA Method 200.7, Rev. 4.4, May 1994, for both drinking water and wastewater analyses. The method requires the samples to be held for 16 hours after acid preservation, verified to be <2 just prior to withdrawing an aliquot for processing, for both total and dissolved metals. Thus, if a laboratory receives a sample unpreserved, the laboratory must preserve, then wait 16 hours (recheck the pH) prior to digesting, testing for turbidity, and running as a direct analyses. Per EPA Cincinnati, the wait allows the acid sufficient contact time to leach any metal that may have adhered to the sample container. This preservation requirement is also specified in EPA Methods 200.8, Revision 5.4, Section 8.3, 200.9, Revision, 2.2, Section 8.3 & 245.1, Revision 3.0, Section 8.2.

6. A free workshop on "New and Upcoming Technologies in Microbiology Testing" is being held @ 3443, N. Central, Phoenix, Arizona, in the conference room on the 9th floor, on May 18, 1999, from 9:00 am to 11:00 am. It is being presented by Mr. Scott King, Western Regional Manager-Environmental, IDEX Laboratories, WA. Mr. King has 12 years experience in clinical and environmental diagnostic testing as Sales Manager. The topics being presented are:
- Short history of coliform as indicator organism
 - Technical explanation of defined substrate technology
 - Demonstrate Colilert, Colilert 18 hour, Colisure, Quantitray, Enterolert, and New HPC Test Simplate
 - Discuss approvals in U.S. for drinking water, wastewater, and recreational waters for defined substrates
 - Share data and colilert stories from around the world.

Please complete and fax the **registration form** if interested in attending this workshop.

7. If you have any questions regarding the Updates, or if you have any technical questions that need clarification, please call or send [e-mail](#) to Prabha Acharya, Program Manager, Technical Resources and Training at the Laboratory Licensure. A [table of contents](#) to all the Information Updates published is also available.

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